

REMARKS

This supplemental response was requested by the examiner in a telephone conference on May 21, 2010. As requested, Applicants have amended claims 67, 73, 74, 255, and 278 to clarify the claim language. In this regard, Applicants note that the claims presented herein are amended relative to the claim amendments entered in the response of March 8, 2010. In addition, Applicants have considered the similarity of certain amino acid sequences for the HPIV2 L protein provided by the examiner and present the results of the assessment below. No new matter is added in this response.

Assessment of Amino Acid Sequences Reported for the HPIV2 L Protein:

During the conference call of May 21st, the examiner expressed concern that other HPIV2 protein sequences (GenBank accession numbers NP_598406.1, CAA40788.1, and BAE00056.1) might not have sufficient homology to the sequences disclosed in the application to warrant the scope of the claims. Applicants contend that any such concerns are misplaced.

The sequences corresponding to the accession numbers above were compared via sequence alignment using the default settings of the SIM program of the Expert Protein Analysis System (ExPASY) – available at <http://expasy.org/tools/sim-prot.html>. The sequences for accession numbers NP_598406.1 and CAA40788.1 were found to be 100% identical over their entire 2262 amino acid sequences (the results of this alignment are provided on pages 6-9). Similarly, sequences for accession number BAE00056.1 was found to be 99.3% identical to NP_598406.1 and CAA40788.1, with 15 sequence differences in 2264 amino acids (the results of this alignment are provided on pages 10-13; however, because of the identity of NP_598406.1 and CAA40788.1, the alignment only compares NP_598406.1 with BAE00056.1). Nonetheless, the relevant segments of the sequences for accession numbers NP_598406.1, CAA40788.1, and BAE00056.1 are 100% identical to the HPIV2 L protein amino acid sequences shown in figure 1 of the application.

In comparing the HPIV2 L protein sequences, Applicants noticed that the amino acid numbering of the NP_598406.1 and CAA40788.1 sequences differs slightly from that of BAE00056.1 and figure 1. In particular, residues 948 and 1566 of figure 1 are numbered as

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residues 946 and 1564, respectively, likely due to the presence of residue insertions in the sequence disclosed in the present application. Therefore, Applicants have amended claims 67, 255, and 278 to clarify the scope of the claims. In this regard, the claims now recite residues of the SEQ ID NOs. that correspond to the relevant sequences of figure 1.

Applicants note that the claimed SEQ IN NOs. were submitted for the pending application on May 13, 2004. Support for the amended claims can be found throughout the specification, such as in paragraph [39] and figure 1.

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NP-598406 .	361. GCLQLKEDPVELAGSERFPTQSTIDILIGGSNLDCEDEITYTTQQLDIFSNLSFLLIAE
CRA40788 .1	361. GCLQLKEDPVELAGSERFPTQSTIDILIGGSNLDCEDEITYTTQQLDIFSNLSFLLIAE *****
NP-598406 .	361. MLCLMLRNLNQPTILTAQVGVRENCANELLQFPTTIRKTLAPPFTILINGYTKKKNQMP
CRA40788 .1	361. MLCLMLRNLNQPTILTAQVGVRENCANELLQFPTTIRKTLAPPFTILINGYTKKKNQMP *****
NP-598406 .	421. ELTLEKNAKSLIEFQNDNAEISYETTLNWRKISLIEFPRKCFDFUPCERLSIPMNEKAI
CRA40788 .1	421. ELTLEKNAKSLIEFQNDNAEISYETTLNWRKISLIEFPRKCFDFUPCERLSIPMNEKAI *****
NP-598406 .	481. SASFREDNRSVFRKLISLICRORCERHHIPMPPPFNRELLINPLEDDSFUPVAELRYVTGEGYL
CRA40788 .1	481. SASFREDNRSVFRKLISLICRORCERHHIPMPPPFNRELLINPLEDDSFUPVAELRYVTGEGYL *****
NP-598406 .	541. QDDTPCAGSYLKEKEIKPFDORIFAKLTIRMESCOVIAEAILANHACTULKENGIVVLAQLS
CRA40788 .1	541. QDDTPCAGSYLKEKEIKPFDORIFAKLTIRMESCOVIAEAILANHACTULKENGIVVLAQLS *****
NP-598406 .	601. LTKGMLTMSQIGILSEKAENYTYRNLISQGQYNTIETUDCKNERKSETASCSYLTDPGDIYPL
CRA40788 .1	601. LTFELLTMSQIGILSEKAENYTYRNLISQGQYNTIETUDCKNERKSETASCSYLTDPGDIYPL *****
NP-598406 .	661. SACFTITIDLAKYCLQFRVYOTIILFARTLRLRMYGVPHLPEWHLRILRSTLTVGDPFNPPL
CRA40788 .1	661. SACFTITIDLAKYCLQFRVYOTIILFARTLRLRMYGVPHLPEWHLRILRSTLTVGDPFNPPL *****
NP-598406 .	721. ATUAFDLDKVNLNGDIFIVNGGIEGLCQENWTMISTVITLSCAESKTRUNSNVQCDNQA
CRA40788 .1	721. ATUAFDLDKVNLNGDIFIVNGGIEGLCQENWTMISTVITLSCAESKTRUNSNVQCDNQA *****
NP-598406 .	781. IAVTTEVPRSLPSTOKKIAAYAASKLFFERLRAANNYGLGHOLPQAEETLISSTFFIVSERV
CRA40788 .1	781. IAVTTRVPRSLPSTOKKIAAYAASKLFFERLRAANNYGLGHOLPQAEETLISSTFFIVSERV *****
NP-598406 .	841. FVQGRILTQALKNASKLCLTADVLSECTQSCGNSATTINRLTENGVERDTCYKLMITYQS
CRA40788 .1	841. FVQGRILTQALKNASKLCLTADVLSECTQSCGNSATTINRLTENGVERDTCYKLMITYQS *****
NP-598406 .	901. IEGQTYLIFQYQSIPOGETISKIFI2BPKLISKIVLPSQL2GMLNIALCSELPFNEKIGQ
CRA40788 .1	901. IEGQTYLIFQYQSIPOGETISKIFI2BPKLISKIVLPSQL2GMLNIALCSELPFNEKIGQ *****
NP-598406 .	961. LGTAVAUFLERLITFQGALESNLYNLLAEPFGNGSMATLAADPVSILQGQELYTFPTTILKRN
CRA40788 .1	961. LGTAVAUFLERLITFQGALESNLYNLLAEPFGNGSMATLAADPVSILQGQELYTFPTTILKRN *****
NP-598406 .	1021. TQNTLMETCRAPFMLEKSVFTDAAKEENLAKFLICRDIVLPPVANITIUDQSTIGERKQTC
CRA40788 .1	1021. TQNTLMETCRAPFMLEKSVFTDAAKEENLAKFLICRDIVLPPVANITIUDQSTIGERKQTC *****
NP-598406 .	1081. GFFUTTETIPRFEKFLSTKNTLISVIEYNTMLYSYNXPVTLAFLIPSTIANYTTC

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CAA40788.1 1081 EPPDFTTENLARRGFETEPLSTKCELEVIWNTNTLSSNTFVILNPLTIEPTILMFTDQTC

NP-598466. 1111 SIVDIRESLNLGSWPLNGLNGTLEGLTTPDPIEVVRGFLIVCTGDCDFCMQGQDKPTWFL
CAA40788.1 1141 SIVDIRESLNLGSWPLNGLNGTLEGLTTPDPIEVVRGFLIVCTGDCDFCMQGQDKPTWFL

NP-598466. 1201 FNGTLLIDGSPETTNPPIRVPTYIGRTERRVRASMAYINGATGSLKALRGAGRVTEKAPGDT
CAA40788.1 1201 FNGTLLIDGSPETTNPPIRVPTYIGRTERRVRASMAYINGATGSLKALRGAGRVTEKAPGDT

NP-598466. 1261 VVWWNDALDIATR/KI SLEQLOQTLPFTSANITPLDQGATLNPFTPASCVAFGSYTH
CAA40788.1 1261 VVWWNDALDIATR/KI SLEQLOQTLPFTSANITPLDQGATLNPFTPASCVAFGSYTH

NP-598466. 1321 EGNDOYLRDQPVVLDNLTYQQLMUTGQHJUETYHNPPIETSTQETILMHLTSSECCVR
CAA40788.1 1321 EGNDOYLRDQPVVLDNLTYQQLMUTGQHJUETYHNPPIETSTQETILMHLTSSECCVR

NP-598466. 1381 EVDGOLICEETNNEVPOQITVPTMTFVYUPOPLADYETIAHLDLYSYQAKIGSTTEYYNLTDK
CAA40788.1 1381 EVDGOLICEETNNEVPOQITVPTMTFVYUPOPLADYETIAHLDLYSYQAKIGSTTEYYNLTDK

NP-598466. 1441 EDLILANLITAKOMINSTICLDETSTVSCNDAVILSDYTNWNTISECCSYTKIDLVFKLNGNHTPL
CAA40788.1 1441 EDLILANLITAKOMINSTICLDETSTVSCNDAVILSDYTNWNTISECCSYTKIDLVFKLNGNHTPL

NP-598466. 1501 LELAPQNYTFLSISGNTMIPQYTTMTRIPSTKLNNTIAARTISHPKILLRRAMLDITTEIN
CAA40788.1 1501 LELAPQNYTFLSISGNTMIPQYTTMTRIPSTKLNNTIAARTISHPKILLRRAMLDITTEIN

NP-598466. 1561 APYIASLDYVFLSISDIAIQWQVQLADLNGIDOLETILNGEDSMETEDRANMLIARKLTL
CAA40788.1 1561 APYIASLDYVFLSISDIAIQWQVQLADLNGIDOLETILNGEDSMETEDRANMLIARKLTL

NP-598466. 1621 LALVKGKEDYTTFPIKGMPPFECNLVLTETYLAMCYQNTNHLOPDLQKLYNLTINPKLTAFP
CAA40788.1 1621 LALVKGKEDYTTFPIKGMPPFECNLVLTETYLAMCYQNTNHLOPDLQKLYNLTINPKLTAFP

NP-598466. 1681 GNNPFLTRKILMIREGDDQXNTTSSYTERFQELEYTDIMGTLTAPYDNGRDNKVRFI
CAA40788.1 1681 GNNPFLTRKILMIREGDDQXNTTSSYTERFQELEYTDIMGTLTAPYDNGRDNKVRFI

NP-598466. 1741 PFDIFTFHPEKLSKYPLFVHDNSQCAISLIPGPPGSHVLRPICVSSTAWYEGLSTCKYLE
CAA40788.1 1741 PFDIFTFHPEKLSKYPLFVHDNSQCAISLIPGPPGSHVLRPICVSSTAWYEGLSTCKYLE

NP-598466. 1801 TQKIQGTDHAYLAQNGAGMNLLELLFPGLTIVTYNGLPFGGENPFGQNTAFLPTQFVQDV
CAA40788.1 1801 TQKIQGTDHAYLAQNGAGMNLLELLFPGLTIVTYNGLPFGGENPFGQNTAFLPTQFVQDV

NP-598466. 1861 PYKLRQADLADDSNLTYDFVPLNNGAVTDLSTKDAVAFIIHKGAFKAGLWHTOLEST
CAA40788.1 1861 PYKLRQADLADDSNLTYDFVPLNNGAVTDLSTKDAVAFIIHKGAFKAGLWHTOLEST

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NP-598406 . 1921 ANIQEQTLRSQIINCLITATTIVLKGCGILLYKTCWLFQRFPSQLAGIACNCFDRIMLIRS
CRA40788.1 1921 ANIQEQTLRSQIINCLITATTIVLKGCGILLYKTCWLFQRFPSQLAGIACNCFDRIMLIRS

NP-598406 . 1981 SYSDPHPSREVYVLCRLAADFRTIGFSGAINTATTIHLNGFTTIPRPIWVQSYWQHRLKNG
CRA40788.1 1981 SYSDPHPSREVYVLCRLAADFRTIGFSAALVINTLHNGFTTIPRPIWVQSYWQHLENV

NP-598406 . 2041 KVGNVIDEFLDGLATIUFFAGDONGLILRCGCTPQDFRNLLEIDQLASTFDIVQDANVLTITR
CRA40788.1 2041 KVGNVIDEFLDGLATIUFFAGDONGLILRCGCTPQDFRNLLEIDQLASTFDIVQDANVLTITR

NP-598406 . 2161 LKETIIVQSSNTEDYTSLALFTPYNIGAGIVRTTIIKLTLERSLMYTVVNNIVLPSSIRDS
CRA40788.1 2161 LKETIIVQSSNTEDYTSLALFTPYNIGAGIVRTTIIKLTLERSLMYTVVNNIVLPSSIRDS

NP-598406 . 2161 VRQDLELGSSFRMLSILSEQTFLKEPTTKYVLLDQLTRIVIISTPFNSRSEVLPFLRPyQKQI
CRA40788.1 2161 VRQDLELGSSFRMLSILSEQTFLKEPTTKYVLLDQLTRIVIISTPFNSRSEVLPFLRPyQKQI

NP-598406 . 2221 WKALGSVIVYSETVDIPLIKDQIRCTINDPFLERGFGIGEL
CRA40788.1 2221 WKALGSVIVYSETVDIPLIKDQIRCTINDPFLERGFGIGEL

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You are here: Expression > Tiers > Sequence alignment > GIM

Sim

[Click here](#) to view these assignments graphically with the **LALNVIEW** program. **amine-type chemicals** such

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Results of 5000 words

Sequence 1: NP_598408.1, (2262 residues)
Sequence 2: 84800058.1, (2263 residues)

ಉತ್ತರ ಕ್ರಿಕೆಟ್ ಪರಾಮಾರ್ಶಾಲಯ:

Comparison matrix size: 2000
Number of alignments computed: 20
Gap open penalty: 12
Gap extension penalty: 4



Evaluate the significance of this protein sequence similarity score using PRSS at EMBNet-CHI.

99.3% Identity in 2166 residues (overlaps: Score: 11637.0; Gap frequency: 0.1%

NP-590466-1 MEAGSETILLPEVNLNSPTVHKLTYVLLGPHFNDLISETIPLANNINMDQFARRERINLA
SH2005E-1 MEAGSETILLPEVNLNSPTVHKLTYVLLGPHFNDLISETIPLANNINMDQFARRERINLA

NP_269406.1 ERIGVAKSELIKRVPFRATWRSNAPAVLNPSCIPFLVKFLPHSKLQVETWKLINAS
BAP00065.1 ERIGVAKSELIKRVPFRATWRSNAPAVLNPSCIPFLVKFLPHSKLQVETWKLINAS

NP-133498 121 CNTISDLSIURKMEILSIKLTGKNNLFSRSECTMGRGNSKIRLNDTOSIWEENKQPNVSL
SAM00036.1 121 CNTISDLSIURKMEILSIKLTGKNNLFSRSECTMGRGNSKIRLNDTOSIWEENKQPNVSL

NP-558496.1 181 LMLTINYQMEQLIMHQSGRQPTLWHLVDTRSGLIVITPELNLICFTRLNSVLMYFIPFEMI
BAE00056.1 181 LMLTINYQMEQLIMHQSGRQPTLWHLVDTRSGLIVITPELNLICFTRLNSVLMYFIPFEMI

NP-598662
BANOGEGEN 241 LMNSIMPEGRMNIVALTCTIIGHLYSLPGRIDPLPSIVDLEAQQLGCDTIVYKVIASLRLSVY
241 LMV SIMPEGRMNIVALTCTIERRLS ELGPGRIGRLFSINDELAQQLGCDTIVYKVIASLRLSVY

NP-598406 . 361 QCLQLKDFPVVRLAIGPNSFPTQELIDILIGSEALDEEITVTTDQLADIPFSLSPVLLSE
SAE00056 .1 361 QCLQLKDFPVVRLAIGPNSFPTQELIDILIGSEALDEEITVTTDQLADIPFSLSPVLLSE

NP-598406 . 361 MLCLMLRMLNCHPTLIAAQY-GRVRRRRMCAAGMLDSEFTWIKLIAFFNHLINGYRRKKGMM
SAE00056 .1 361 MLCLMLRMLNCHPTLIAAQY-GRVRRRRMCAAGMLDSEFTWIKLIAFFNHLINGYRRKKGMM

NP-598406 . 420 PPLILPKNAKRGCLIEFQHQAISIETYTLKWRKELI2EFREKCFDFDPPGELN1FMDKA
SAE00056 .1 421 PPLILPKNAKRGCLIEFQHQAISIETYTLKWRKELI2EFREKCFDFDPPGELN1FMDKA

NP-598406 . 480 ISAPRSDWNSVTRRCLINQRHQRHIPMPDPFFURRLLNPLEEDDFDPPVAKLRYVTGEGY
SAE00056 .1 481 ISAPRSDWNSVTRRCLINQRHQRHIPMPDPFFURRLLNPLEEDDFDPPVAKLRYVTGEGY

NP-598406 . 540 LQDUDFCASYSLKEKEKIEPTIGEITPAKLTRHESCOVIAEAIILAEHAGILKENGIVVLLNQL
SAE00056 .1 541 LQDUDFCASYSLKEKEKIEPTIGEITPAKLTRHESCOVIAEAIILAEHAGILKENGIVVLLNQL

NP-598406 . 600 SUTKSLUTMSQJGTTSRKAEVYTRDN1C5QQFHTITPTEPKRKEFTACSYCLTDPLDTPE
SAE00056 .1 601 SUTKSLUTMSQJGTTSRKAEVYTRDN1C5QQFHTITPTEPKRKEFTACSYCLTDPLDTPE

NP-598406 . 660 LCACTTTDOLAKYCLQWEMIOTLIEHPARTLAKRMYGVFALPEXIKLRLIRSL1VVDFFNPP
SAE00056 .1 661 LCACTTTDOLAKYCLQWEMIOTLIEHPARTLAKRMYGVFALPEXIKLRLIRSL1VVDFFNPP

NP-598406 . 720 AATDASDLDKLMODIFIVE-KCGIEGLCQRMWTMISIVIILGSRRENTRVMEVQGLN
SAE00056 .1 721 AATDASDLDKLMODIFIVE-KCGIEGLCQRMWTMISIVIILGSRRENTRVMEVQGLN

NP-598406 . 780 QATANTTVPESLPSQKRELAYAASMLPFLERLANNVGLGKOLKAQETLISSTFFIXCE
SAE00056 .1 781 QATANTTVPESLPSQKRELAYAASMLPFLERLANNVGLGKOLKAQETLISSTFFIXCE

NP-598406 . 840 RVFTQGRILITQALKHACKLCLTAUVLGECTQASCNSATTMLITENGVEKDTCYKLNTY
SAE00056 .1 841 RVFTQGRILITQALKHACKLCLTAUVLGECTQASCNSATTMLITENGVEKDTCYKLNTY

NP-598406 . 900 QSIROQJYDILIFPOYSIPIGETISEIFLQMPRLTISIVLIPQSIQGLNLYLACSLFNRNTIG
SAE00056 .1 901 QSIROQJYDILIFPOYSIPIGETISEIFLQMPRLTISIVLIPQSIQGLNLYLACSLFNRNTIG

NP-598406 . 960 DPLCTAVADLRLPLIKTALCENWILYNNLARKPGKCSWATLAAFPYGLNQWLYPFTELK
SAE00056 .1 961 DPLCTAVADLRLPLIKTALCENWILYNNLARKPGKCSWATLAAFPYGLNQWLYPFTELK

NP-598406 . 1020 RHTQFLRSLRCHRPMLLEGQFTIONAKEEENLAKFLLERDILVLPVAKU11DQSS3TRKED
SAE00056 .1 1021 RHTQFLRSLRCHRPMLLEGQFTIONAKEEENLAKFLLERDILVLPVAKU11DQSS3TRKED

NP-598406 . 1070 IQGFFDUTTRU11RRGFS1KPLSTRTK1LSV1EPTNTYLSVNYTVILNPLPQGMLN1VPPQ

BAR00056.1	1081	IQGFFYDITIMMERSFEINPLSTETKLEVLEYNURYLSTYRNPVILAFPLFIPQXINNTDQ
	*****	*****
NP-598406.	1129	TCSIDISRSLRKLWSCLLNGTILEGLETPOPIEVNGPLIVTGCDCLFCUNQJDDKFTW
BAR00056.1	1141	TCSIDISRSLRKLWSCLLNGTILEGLETPOPIEVNGPLIVTGCDCLFCUNQJDDKFTW
	*****	*****
NP-598406.	1159	FLPMQITIDPNTKINPPLVPTIGSRTEERRVASHMAYICATHLRLRQAVYVNGO
BAR00056.1	1161	FLPMQITIDPNTKINPPLVPTIGSRTEERRVASHMAYICATHLRLRQAVYVNGO
	*****	*****
NP-598406.	1259	DTTVVNMNDALDTANTPVLKLELQLQTLPPLTSANITHLDOATITLEPFTASSYAFSDY
BAR00056.1	1261	DTTVVNMNDALDTANTPVLKLELQLQTLPPLTSANITHLDOATITLEPFTASSYAFSDY
	*****	*****
NP-598406.	1319	THIENDQYLEDIDQRVVDENIITYQQLMITSGLGILETYHNPFTINTDQITLMLNTESOC
BAR00056.1	1321	THIENDQYLEDIDQRVVDENIITYQQLMITSGLGILETYHNPFTINTDQITLMLNTESOC
	*****	*****
NP-598406.	1379	YRSTVQCLICESINGNPQITVPYINTFVYDPUPLADYHIAHLTYLSTYQAKIGSTIYYSLT
BAR00056.1	1381	YRSTVQCLICESINGNPQITVPYINTFVYDPUPLADYHIAHLTYLSTYQAKIGSTIYYSLT
	*****	*****
NP-598406.	1439	DKDNLLANLTAKQMINSLIILDETVSTVNDAVILSDYTNMKISROSYTKIDNPKLMNN
BAR00056.1	1441	DKDNLLANLTAKQMINSLIILDETVSTVNDAVILSDYTNMKISROSYTKIDNPKLMNN
	*****	*****
NP-598406.	1499	FLLELIAFQMYYLRISSWNTIFDYYTMILREIPOTALENNIATLSPFILLRMANNLITYP
BAR00056.1	1501	FLLELIAFQMYYLRISSWNTIFDYYTMILREIPOTALENNIATLSPFILLRMANNLITYP
	*****	*****
NP-598406.	1559	IRAPYIACLOVYKLGIDAIQWVYKQVIALLSNGICLLEILTLSEDSEMEISDPAANLTKRL
BAR00056.1	1561	IRAPYIACLOVYKLGIDAIQWVYKQVIALLSNGICLLEILTLSEDSEMEISDPAANLTKRL
	*****	*****
NP-598406.	1619	THALVURGENTTFFPKLKGMPPEEKCLVLTBEYLAMCYQTYTNUHPLQYLYHLYTNPVTA
BAR00056.1	1621	THALVURGENTTFFPKLKGMPPEEKCLVLTBEYLAMCYQTYTNUHPLQYLYHLYTNPVTA
	*****	*****
NP-598406.	1679	FPGSMIFYLTRKILDQIRESDEGQYIITSYYESFPGLETDTILRSTLTAFYDUNSETI/TKFD
BAR00056.1	1681	FPGSMIFYLTRKILDQIRESDEGQYIITSYYESFPGLETDTILRSTLTAFYDUNSETI/TKFD
	*****	*****
NP-598406.	1739	PIPPDIFYIPRECLCYPLFVDHQSQSATISTLIFGFPEKSVIRPLSVSTANTYKQISYCY
BAR00056.1	1741	-LSLDIFHPSCLCYPLFVDHQSQSATISTLIFGFPEKSVIRPLSVSTANTYKQISYCY
	*****	*****
NP-598406.	1769	LETQKIQDQDNLVLAEGSNSAQSLLSLLFPGDTVYTNELFSEGENPQDNCFLPQYVQ
BAR00056.1	1780	LETQKIQDQDNLVLAEGSNSAQSLLSLLFPGDTVYTNELFSEGENPQDNCFLPQYVQ
	*****	*****
NP-598406.	1869	SVPTYKQYQDADLQSELKIKOFVPLMNRQCRVTDLSTKDAVAFPLTINVYQAEQASTLNWIDLE
BAR00056.1	1870	SVPTYKQYQDADLQSELKIKOFVPLMNRQCRVTDLSTKDAVAFPLTINVYQAEQASTLNWIDLE

NP-598406 . 1919 STANLIMQQLNSQIHSLSLIAATTYVKPGCILYKTCWLPFCSSEFSQLAQLANOFFDRLIL
BAE00056 .1 1920 STANLIMQQLNSQIHSLSLIAATTYVKPGCILYKTCWLPFCSSEFSQLAQLANOFFDRLIL

NP-598406 . 1973 RSEVYSDPHESEVYVLCRLAADFRTIGFSKALVTAATLNLNGFTTINPDDVVCSTWQNLLEN
BAE00056 .1 1980 RRSVYSDPHESEVYVLCRLAADFRTIGFSKALVTAATLNLNGFTTINPDDVVCSTWQNLLEN

NP-598406 . 2031 VEVVVKVIDEILIDGLATNFAGCNGILILRCGCGTPSSRKWLEIIXGLASVILVODALVILIT
BAE00056 .1 2040 VEVVVKVIDEILIDGLATNFAGCNGILILRCGCGTPSSRKWLEIIXGLASVILVODALVILIT

NP-598406 . 2050 IHLKSLIEVQSSNHTIYVTCALPTPYNIGAGCVENTIHLKSLIYVTCVNNQVILPSSIR
BAE00056 .1 2100 IHLKSLIEVQSSNHTIYVTCALPTPYNIGAGCVENTIHLKSLIYVTCVNNQVILPSSIR

NP-598406 . 2150 DSVYQDILKLGFRMLSLCSEQYFLKPTKPTKYLQDQIYIISTYFNSHSGVLPFLHNPYQK
BAE00056 .1 2160 DSVYQDILKLGFRMLSLCSEQYFLKPTKPTKYLQDQIYIISTYFNSHSGVLPFLHNPYQK

NP-598406 . 2210 QIWKALGASVIVCSETVDEILINQIQRDINGFDTERGIDGEEI
BAE00056 .1 2220 QIWKALGASVIVCSETVDEILINQIQRDINGFDTERGIDGEEI

Supplemental Response at Examiner's Request

Applicants note that this response is being made at the request of the examiner; therefore, no reduction in any patent term extension due to Applicants should occur based on this response (see 37 CFR 1.704(c)(8)).

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